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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Jakobsen et al.

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Examiner: Ewoldt, G

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Serial No.: 10/014,326

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Group Art Unit: 1644

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For: Soluble T cell Receptor

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United States Commissioner For Patents  
Washington, D.C. 20231

Dear Sir:

**RESPONSE TO NOTICE TO FILE MISSING PARTS OF APPLICATION AND  
PRELIMINARY AMENDMENT AND REMARKS**

This Preliminary Amendment is being filed in response to the Notice to File Missing Parts mailed January 28, 2002.

**PRELIMINARY AMENDMENT**

**In the Specification:**

Pursuant to 37 CFR 1.121(b)(3) and 1.125(b), please replace the present specification with the substitute specification submitted herewith. Also submitted herewith is a marked-up copy of the substitute specification, showing changes from the specification originally filed in the U.S. parent application, U.S. Ser. No. 09/335,087 ("the '087 specification"). (The specification filed November 13, 2001, was a clean copy of the substitute specification filed November 2, 1999, which included amendments to the '087 specification relating to nucleic acid and amino acid sequence identifiers.)

The present preliminary amendment makes the following changes to the 087 specification:

On page 1, after the Title of the Invention, please insert the following heading and paragraph:

- - Related Applications

This application is a continuation of U.S. Ser. No. 09/335,087, filed June 17, 1999, abandoned, which was the U.S. national phase of International Patent Application No. PCT GB/99/01588, filed May 19, 1999, which claimed priority to Great Britain Patent Application Nos. 9821129.5, filed September 29, 1998, and 9810759.2, filed May 19, 1998. - -

On page 1, after the foregoing paragraph, please insert the heading:

-- Field of the Invention --

On page 3, line 14, after "receptor" delete "for".

On page 4, line 31, delete "Biacore™" and insert -- BIACORE™ -- therefor.

On page 5, line 21, before "shown" delete "has" and substitute -- have -- therefor.

On page 6, line 4, before "the surface" delete "of" and substitute -- on -- therefor.

On page 6, line 23, insert a comma after "SPR".

On page 7, line 19, insert a period after "complexes".

On page 9, line 1, delete "*et al*" and substitute -- et al. -- therefor.

On page 9, line 4, delete "*et al*" and substitute -- et al. -- therefor.

On page 9, line 4, after "et al." insert -- (1994) --.

On page 11, line 21, delete "et al" and substitute -- et al. -- therefor.

On page 11, line 22, delete "*et al*" and substitute -- et al. -- therefor.

On page 11, line 26, delete "αchain " and substitute -- α chain -- therefor.

On page 11, line 26, delete "βchain " and substitute -- β chain -- therefor.

On page 11, line 27, delete both instances of "et al" and substitute -- et al. -- therefor.

On page 11, line 30, delete "et al," and substitute -- et al. -- therefor.

On page 12, line 5, delete "et al," and substitute -- et al. -- therefor.

On page 12, line 8, delete both instances of "et al," and substitute -- et al. -- therefor.

On page 12, line 9, delete "et al," and substitute -- et al. -- therefor.

On page 13, line 11, delete "by" and substitute -- in -- therefor.

On page 13, line 11, delete ", (Schlessinger".

On page 16, line 22, delete "a" and substitute --  $\alpha$  -- therefor.

On page 16, line 22, after "and" insert --  $\beta$  --.

On page 16, line 29, delete "linkers" and substitute -- linker -- therefor.

On page 17, line 9, before "Aifantis" delete "(".

On page 17, line 11, delete ")))" and substitute -- ) -- therefor.

On page 17, line 18, delete "include for example" and substitute -- include, for example, -  
- therefor.

On page 17, line 28, delete "n-terminal" and substitute -- N-terminal -- therefor.

On page 19, line 13, delete "et al," and substitute -- et al. -- therefor.

On page 21, line 4, delete "et al," and substitute -- et al. -- therefor.

On page 21, line 6, insert a comma after "strength".

On page 21, line 7, insert a comma after "varied".

On page 21, line 13, delete ")" and substitute -- )) -- therefor.

On page 21, line 29, delete "metastasis" and substitute -- metastases -- therefor.

On page 22, line 18, delete "n-terminal" and substitute -- N-terminal -- therefor.

On page 22, line 21, after " $\beta$ -Fos" insert -- fusion proteins --.

On page 22, line 22, delete "alpha" and substitute --  $\alpha$  -- therefor.

On page 22, line 22, delete "beta" and substitute --  $\beta$  -- therefor.

On page 22, line 28, delete "and" and substitute -- or -- therefor.

On page 22, line 31, delete "alpha" and substitute --  $\alpha$  -- therefor.

On page 22, line 31, delete "beta" and substitute --  $\beta$  -- therefor.

On page 23, line 17, insert a quotation mark after "amplification".

On page 23, line 18, after "anchor primer" insert -- (SEQ ID NO. 1) --.

On page 23, line 19, after "specific primer" insert -- (SEQ ID NO. 2) --.

On page 23, line 20, after "specific primer" insert -- (SEQ ID NO. 3) --.

On page 23, line 25, after "5' primer" insert -- (SEQ ID NO. 4) --.

On page 23, line 26, after "c-jun 3' primer" insert -- (SEQ ID NO. 5) --.

On page 23, line 26, after "c-fos 5' primer" insert -- (SEQ ID NO. 6) --.

On page 23, line 26, after "c-fos 3' primer" insert -- (SEQ ID NO. 7) --.

On page 23, line 30, after "TCR  $\alpha$  chains" insert -- (SEQ ID NO. 9 (DNA sequence) and SEQ ID NO. 10 (amino acid sequence)) --.

On page 23, line 31, after "TCR  $\beta$  chains" insert -- (SEQ ID NO. 8 (DNA sequence) and SEQ ID NO. 11 (amino acid sequence)) --.

On page 24, line 6, after "sequence" insert -- (SEQ ID NO. 12 (DNA sequence) and SEQ ID NO. 13 (amino acid sequence)) --.

On page 24, line 7, after "primer" insert -- (SEQ ID NO. 14) --.

On page 24, line 8, after "sequence" insert -- (SEQ ID NO. 16 (amino acid sequence) and SEQ ID NO. 15 (DNA sequence)) --.

On page 24, line 10, after "primer" insert -- (SEQ ID NO. 17) --.

On page 24, line 28, after "TCR" insert -- (SEQ ID NO. 18 and SEQ ID NO. 19) --.

On page 24, line 30, after "TCR" insert -- (SEQ ID NO. 20 and SEQ ID NO. 21) --.

On page 24, line 31, after "TCR" insert -- (SEQ ID NO. 22 and SEQ ID NO. 23) --.

On page 25, line 2, after "TCR " insert -- (SEQ ID NO. 24 and SEQ ID NO. 25) --.

On page 25, line 3, after "TCR" insert -- (SEQ ID NO. 26 and SEQ ID NO. 27) --.

On page 25, line 5, after "TCR" insert -- (SEQ ID NO. 28 and SEQ ID NO. 29) --.

On page 25, line 6, after "TCR" insert -- (SEQ ID NO. 30 and SEQ ID NO. 31) --.

On page 25, line 8, after "TCR" insert -- (SEQ ID NO. 32 and SEQ ID NO. 33) --.

On page 25, line 9, after "TCR" insert -- (SEQ ID NO. 34 and SEQ ID NO. 35) --.

On page 25, line 10, after "TCR" insert -- (SEQ ID NO. 36 and SEQ ID NO. 37) --.

On page 25, line 11, after "applicable" insert -- (SEQ ID NO. 38) --.

On page 25, line 12, after "applicable" insert -- (SEQ ID NO. 39) --.

On page 25, line 14, after "(one letter code, top)" insert -- (SEQ ID NO. 41) --.

On page 25, line 15, after "(bottom)" insert -- (SEQ ID NO. 40) --.

On page 25, line 18, delete "*E.coli*" and substitute -- *E. coli* -- therefor.

On page 25, line 21, after "(one letter code, top)" insert -- (SEQ ID NO. 43) --.

On page 25, line 22, after "(bottom)" insert -- (SEQ ID NO. 42) --.

On page 25, line 27, after "(one letter code, top)" insert -- (SEQ ID NO. 45) --.

On page 25, line 28, after "(bottom)" insert -- (SEQ ID NO. 44) --.

On page 25, line 31, delete "*E.coli*" and substitute -- *E. coli* -- therefor.

On page 26, line 4, after "(one letter code, top)" insert -- (SEQ ID NO. 47) --.

On page 26, line 5, after "(bottom)" insert -- (SEQ ID NO. 46) --.

On page 26, line 10, after "(one letter code, top)" insert -- (SEQ ID NO. 49) --.

On page 26, line 11, after "(bottom)" insert -- (SEQ ID NO. 48) --.

On page 26, line 17, after "(one letter code, top)" insert -- (SEQ ID NO. 51) --.

On page 26, line 18, after "(bottom)" insert -- (SEQ ID NO. 50) --.

On page 26, line 23, after "(one letter code, top)" insert -- (SEQ ID NO. 53) --.

On page 26, line 24, after "(bottom)" insert -- (SEQ ID NO. 52) --.

On page 26, line 25, delete both instances of "et al," and substitute -- et al. -- therefor.

On page 26, line 31, after "(one letter code, top)" insert -- (SEQ ID NO. 55) --.

On page 26, line 32, after "(bottom)" insert -- (SEQ ID NO. 54) --.

On page 27, line 1, delete both instances of "et al," and substitute -- et al. -- therefor.

On page 27, line 4, delete "et al," and substitute -- et al. -- therefor.

On page 27, line 10, after "(one letter code, top)" insert -- (SEQ ID NO. 57) --.

On page 27, line 11, after "bottom" insert -- (SEQ ID NO. 56) --.

On page 27, line 12, delete "et al," and substitute -- et al. -- therefor.

On page 27, line 16, after "(one letter code, top)" insert -- (SEQ ID NO. 59) --.

On page 27, line 17, after "(bottom)" insert -- (SEQ ID NO. 58) --.

On page 27, line 18, delete "et al," and substitute -- et al. -- therefor.

On page 27, line 26, after "(one letter code, top)" insert -- (SEQ ID NO. 61) --.

On page 27, line 27, after "(bottom)" insert -- (SEQ ID NO. 60) --.

On page 27, line 28, delete "et al," and substitute -- et al. -- therefor.

On page 27, line 29, delete "al," and substitute -- al. -- therefor.

On page 28, line 7, after "(one letter code, top)" insert -- (SEQ ID NO. 63) --.

On page 28, line 8, after "(bottom)" insert -- (SEQ ID NO. 62) --.

On page 28, line 13, after "primer" insert -- (SEQ ID NO. 64) --.

On page 29, line 3, delete "POROS" and substitute -- POROS<sup>TM</sup> -- therefor.

On page 29, line 8, delete "Superdex" and substitute -- SUPERDEX<sup>TM</sup> -- therefor.

On page 29, line 22, delete "POROS" and substitute -- POROS<sup>TM</sup> -- therefor.

On page 29, line 32, delete "POROS" and substitute -- POROS<sup>TM</sup> -- therefor.

On page 30, line 12, delete "Superdex" and substitute -- SUPERDEX<sup>TM</sup> -- therefor.

On page 31, line 31, after "(one-letter code, top)" insert -- (SEQ ID NO. 66) --.

On page 31, line 32, after "(bottom)" insert -- (SEQ ID NO. 65) --.

On page 31, line 32, delete "alfa" and substitute --  $\alpha$  -- therefor.

On page 32, line 3, delete "*E.coli*" and substitute -- *E. coli* -- therefor.

On page 32, line 6, after "(one-letter code, top)" insert -- (SEQ ID NO. 68) --.

On page 32, line 7, after "(bottom)" insert -- (SEQ ID NO. 67) --.

On page 32, line 7, delete "beta" and substitute --  $\beta$  -- therefor.

On page 32, line 14, after "(one-letter code, top)" insert -- (SEQ ID NO. 70) --.

On page 32, line 15, after "(bottom)" insert -- (SEQ ID NO. 69) --.

On page 32, line 15, delete "beta" and substitute --  $\beta$  -- therefor.

On page 32, line 27, delete "POROS" and substitute -- POROS<sup>TM</sup> -- therefor.

On page 33, line 2, delete "Superdex" and substitute -- SUPERDEX<sup>TM</sup> -- therefor.

On page 33, line 10, after "(one-letter code, top)" insert -- (SEQ ID NO. 72) --.

On page 33, line 11, after "(bottom)" insert -- (SEQ ID NO. 71) --.

On page 33, line 11, delete "alfa" and substitute --  $\alpha$  -- therefor.

On page 33, line 12, delete the first instance of "1996" and substitute -- 1996a -- therefor.

On page 33, line 12, delete the second instance of "1996" and substitute -- 1996b -- therefor.

On page 33, line 14, delete "*E.coli*" and substitute -- *E. coli* -- therefor.

On page 33, line 18, after "(one-letter code, top)" insert -- (SEQ ID NO. 74) --.

On page 33, line 19, after "(bottom)" insert -- (SEQ ID NO. 73) --.

On page 33, line 19, delete "beta" and substitute --  $\beta$  -- therefor.

On page 33, line 20, delete the first instance of "1996" and substitute -- 1996a -- therefor.

On page 33, line 20, delete the second instance of "1996" and substitute -- 1996b -- therefor.

On page 33, line 27, after "(one-letter code, top)" insert -- (SEQ ID NO. 76) --.

On page 33, line 28, after "(bottom)" insert -- (SEQ ID NO. 75) --.

On page 33, line 28, delete "alfa" and substitute --  $\alpha$  -- therefor.

On page 34, line 1, after "(one-letter code, top)" insert -- (SEQ ID NO. 78) --.

On page 34, line 2, after "(bottom)" insert -- (SEQ ID NO. 77) --.

On page 34, line 2, delete "beta" and substitute --  $\beta$  -- therefor.

On page 35, line 30, delete "Superdex" and substitute -- SUPERDEX<sup>TM</sup> -- therefor.

On page 36, line 1, delete "Superdex" and substitute -- SUPERDEX<sup>TM</sup> -- therefor.

On page 36, line 6, delete "Biocad" and substitute -- BIOCAD<sup>TM</sup> -- therefor.

On page 36, line 17, delete "Mini-Protean" and substitute -- MINI-PROTEAN<sup>TM</sup> -- therefor.

On page 38, line 9, delete "*et al*" and substitute -- et al. -- therefor.

On page 38, line 17, delete "*et al*" and substitute -- et al. -- therefor.

On page 38, line 20, delete "Alpha" and substitute --  $\alpha$  -- therefor.

On page 38, line 20, delete "beta" and substitute --  $\beta$  -- therefor.

On page 38, line 27, delete "*et al*" and substitute -- et al. -- therefor.

On page 38, line 31, delete "*E.coli*" and substitute -- *E. coli* -- therefor.

On page 38, line 31, delete "*et al*" and substitute -- et al. 1998 -- therefor.

On page 39, line 4, delete "*E.coli*" and substitute -- *E. coli* -- therefor.

On page 39, line 13, delete "*E.coli*" and substitute -- *E. coli* -- therefor.

On page 41, line 20, delete "POROS" and substitute -- POROS<sup>TM</sup> -- therefor.

On page 41, line 22, delete "Biocad" and substitute -- BIOCAD<sup>TM</sup> -- therefor.

On page 41, line 32, delete "Superdex" and substitute -- SUPERDEX<sup>TM</sup> -- therefor.

On page 42, line 14, delete "*et al*" and substitute -- et al. -- therefor.

On page 44, line 12, delete "Superdex" and substitute -- SUPERDEX<sup>TM</sup> -- therefor.

On page 43, line 25, delete "*et al*" and substitute -- et al. -- therefor.

On page 44, line 4, delete "*et al*" and substitute -- et al. -- therefor.

On page 45, line 7, delete "centricon" and substitute -- CENTRICON™ -- therefor.

On page 46, line 25, delete "Bluescript" and substitute -- BLUESCRIPT™ -- therefor.

On page 46, line 25, delete "pBluescript" and substitute -- PBLUESCRIPT™ -- therefor.

On page 46, line 30, delete "BigDye™" and substitute -- BIGDYE™ -- therefor.

On page 47, line 11, delete "pBluescript" and substitute -- PBLUESCRIPT™ -- therefor.

On page 47, line 16, delete "BigDye™" and substitute -- BIGDYE™ -- therefor.

On page 47, line 32, delete "Superdex" and substitute -- SUPERDEX™ -- therefor.

On page 50, line 18, after "(GILGFVFTL)" insert -- (SEQ ID NO. 79) --.

On page 50, line 20, after "(SLYNTVATL)" insert -- (SEQ ID NO. 80) --.

On page 50, line 22, after "(ASNENMDAM)" insert -- (SEQ ID NO. 81) --.

On page 50, line 26, after "(LLFGYPVYV)" insert -- (SEQ ID NO. 82) --.

On page 52, line 29, after "(LLFGYPVYV)" insert -- (SEQ ID NO. 82) --.

On page 53, line 8, delete "BigDye" and substitute -- BIGDYE™ -- therefor.

On page 55, line 14, delete "POROS" and substitute -- POROS™ -- therefor.

On page 55, line 15, delete "Biocad" and substitute -- BIOCAD™ -- therefor.

On page 56, line 2, delete "Ultrafree" and substitute -- ULTRAFREE™ -- therefor.

On page 56, line 12, delete "Superdex" and substitute -- SUPERDEX™ -- therefor.

On page 57, line 20, insert a period after "enzyme".

On page 58, line 1, after "(GILGFVFTL)" insert -- (SEQ ID NO. 79) --.

On page 58, line 20, after "(ILKEPVHGV)" insert -- (SEQ ID NO. 83) --.

On page 59, line 8, after "(ASNENMDAM)" insert -- (SEQ ID NO. 81) --.

On page 59, line 24, after "(GILGFVFTL)" insert -- (SEQ ID NO. 79) --.

On page 59, line 24, after "(LLFGYPVYV)" insert -- (SEQ ID NO. 82) --.

On page 61, lines 18-19, delete "*et al*" and substitute -- *et al.* -- therefor.

On page 61, line 26, delete "*et al*" and substitute -- *et al.* -- therefor.

On page 62, line 3, delete "*et al*" and substitute -- *et al.* -- therefor.

On page 62, line 7, delete "*E.coli*" and substitute -- *E. coli* -- therefor.

On page 62, line 7, delete "*et al*" and substitute -- *et al.* -- therefor.

On page 62, line 18, after "5'-GCTCTAGACATATGGGCCCAGTGGATTCT